

1631

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/502,984

DATE: 11/17/2000
 TIME: 14:58:44

Input Set : A:\A68126-1.app
 Output Set: N:\CRF3\11172000\I502984.raw

3 <110> APPLICANT: LUO, Peizhi
 5 <120> TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
 7 <130> FILE REFERENCE: A-68126-1/RFT/RMS/RMK
 9 <140> CURRENT APPLICATION NUMBER: 09/502,984
 10 <141> CURRENT FILING DATE: 2000-02-11
 12 <150> PRIOR APPLICATION NUMBER: 60/120,009
 13 <151> PRIOR FILING DATE: 1999-02-11
 15 <150> PRIOR APPLICATION NUMBER: 60/131,674
 16 <151> PRIOR FILING DATE: 1999-04-29
 18 <160> NUMBER OF SEQ ID NOS: 36
 20 <170> SOFTWARE: PatentIn Ver. 2.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 225
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
 28 Ala Pro Pro Pro Asn Leu Pro Asp Pro Lys Phe Glu Ser Lys Ala Ala
 29 1 5 10 15
 31 Leu Leu Ala Ala Arg Gly Pro Glu Glu Leu Leu Cys, Phe Thr Glu Arg
 32 20 25 30
 34 Leu Glu Asp Leu Val Cys Phe Trp Glu Glu Ala Ala Ser Ala Gly Val
 35 35 40 45
 37 Gly Pro Gly Asn Tyr Ser Phe Ser Tyr Gln Leu Glu Asp Glu Pro Trp
 38 50 55 60
 40 Lys Leu Cys Arg Leu His Gln Ala Pro Thr Ala Arg Gly Ala Val. Arg
 41 65 70 75 80
 43 Phe Trp Cys Ser Leu Pro Thr Ala Asp Thr Ser Ser Phe Val Pro Leu
 44 85 90 95
 46 Glu Ile Arg Val Thr Ala Ala Ser Gly Ala Pro Arg Tyr His Arg Val
 47 100 105 110
 49 Ile His Ile Asn Glu Val Val Leu Leu Asp Ala Pro Val Gly Leu Val
 50 115 120 125
 52 Ala Arg Leu Ala Asp Glu Ser Gly His Val Val Leu Arg Trp Leu Pro
 53 130 135 140
 55 Pro Pro Glu Thr Pro Met Thr Ser His Ile Arg Tyr Glu Val Asp Val
 56 145 150 155 160
 58 Ser Ala Gly Asn Gly Ala Gly Ser Val Gln Arg Val Glu Ile Leu Glu
 59 165 170 175
 61 Gly Arg Thr Glu Cys Val Leu Ser Asn Leu Arg Gly Arg Thr Arg Tyr
 62 180 185 190
 64 Thr Phe Ala Val Arg Ala Arg Met Ala Glu Pro Ser Phe Gly Gly Phe
 65 195 200 205
 67 Trp Ser Ala Trp Ser Glu Pro Val Ser Leu Leu Thr Pro Ser Asp Leu
 68 210 215 220
 70 Asp
 71 225
 74 <210> SEQ ID NO: 2

PS #6/Raw
 Seg.
 listing
 (OK)

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USPTO/ENTER 168072500

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Input Set : A:\A68126-1.app
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75 <211> LENGTH: 211
76 <212> TYPE: PRT
77 <213> ORGANISM: Homo sapiens
79 <400> SEQUENCE: 2
80 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
81 1 5 10 15
83 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu
84 20 25 30
86 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Phe Ser Tyr
87 35 40 45
89 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
90 50 55 60
92 Thr Ala Arg Gly Ala Val Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
93 65 70 75 80
95 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser Gly
96 85 90 95
98 Ala Pro Arg Tyr His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
99 100 105 110
101 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
102 115 120 125
104 Val Val Leu Arg Trp Leu Pro Pro Glu Thr Pro Met Thr Ser His
105 130 135 140
107 Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser Val
108 145 150 155 160
110 Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn
111 165 170 175
113 Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met Ala
114 180 185 190
116 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser
117 195 200 205
119 Leu Leu Thr
120 210
123 <210> SEQ ID NO: 3
124 <211> LENGTH: 212
125 <212> TYPE: PRT
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
131 <400> SEQUENCE: 3
132 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
133 1 5 10 15
135 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu
136 20 25 30
138 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe
139 35 40 45
141 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
142 50 55 60
144 Thr Ala Arg Gly Ala Ile Arg Ile Phe Trp Cys Ser Leu Pro Thr Ala
145 65 70 75 80

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Input Set : A:\A68126-1.app
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147 Asp Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser
148 85 90 95
150 Gly Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu
151 100 105 110
153 Leu Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly
154 115 120 125
156 His Val Val Leu Arg Trp Leu Pro Pro Glu Thr Pro Met Thr Ser
157 130 135 140
159 His Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser
160 145 150 155 160
162 Val Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser
163 165 170 175
165 Asn Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met
166 180 185 190
168 Ala Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val
169 195 200 205
171 Ser Leu Leu Thr
172 210
175 <210> SEQ ID NO: 4
176 <211> LENGTH: 211
177 <212> TYPE: PRT
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
183 <400> SEQUENCE: 4
184 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
185 1 5 10 15
187 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Phe Glu
188 20 25 30
190 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe
191 35 40 45
193 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
194 50 55 60
196 Thr Ala Arg Gly Ala Ile Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
197 65 70 75 80
199 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Leu Thr Ala Ala Ser Gly
200 85 90 95
202 Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
203 100 105 110
205 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
206 115 120 125
208 Val Val Leu Arg Trp Leu Pro Pro Glu Thr Pro Met Thr Ser His
209 130 135 140
211 Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser Val
212 145 150 155 160
214 Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn
215 165 170 175
217 Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met Ala
218 180 185 190

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Input Set : A:\A68126-1.app
Output Set: N:\CRF3\11172000\I502984.raw

220 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser
221 195 200 205
223 Leu Leu Thr
224 210
227 <210> SEQ ID NO: 5
228 <211> LENGTH: 211
229 <212> TYPE: PRT
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
235 <400> SEQUENCE: 5
236 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
237 1 5 10 15
239 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu
240 20 25 30
242 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Phe Ser Tyr
243 35 40 45
245 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
246 50 55 60
248 Thr Ala Arg Gly Ala Val Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
249 65 70 75 80
251 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser Gly
252 85 90 95
254 Ala Pro Arg Tyr His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
255 100 105 110
257 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
258 115 120 125
260 Val Val Ile Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His
261 130 135 140
263 Ile Arg Phe Glu Leu Asp Ile Ser Ala Gly Asn Gly Ala Gly Ser Val
264 145 150 155 160
266 Gln Arg Val Glu Leu Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn
267 165 170 175
269 Leu Arg Gly Arg Thr Arg Ile Thr Ile Ala Val Arg Ala Arg Met Ala
270 180 185 190
272 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser
273 195 200 205
275 Leu Leu Thr
276 210
279 <210> SEQ ID NO: 6
280 <211> LENGTH: 211
281 <212> TYPE: PRT
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
287 <400> SEQUENCE: 6
288 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
289 1 5 10 15
291 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Phe Glu

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Input Set : A:\A68126-1.app
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292 20 25 30
294 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe
295 35 40 45
297 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
298 50 55 60
300 Thr Ala Arg Gly Ala Ile Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
301 65 70 75 80
303 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Leu Thr Ala Ala Ser Gly
304 85 90 95
306 Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
307 100 105 110
309 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
310 115 120 125
312 Val Val Ile Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His
313 130 135 140
315 Ile Arg Phe Glu Leu Asp Ile Ser Ala Gly Asn Gly Ala Gly Ser Val
316 145 150 155 160
318 Gln Arg Val Glu Leu Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn
319 165 170 175
321 Leu Arg Gly Arg Thr Arg Ile Thr Ile Ala Val Arg Ala Arg Met Ala
322 180 185 190
324 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser
325 195 200 205
327 Leu Leu Thr
328 210
331 <210> SEQ ID NO: 7
332 <211> LENGTH: 211
333 <212> TYPE: PRT
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
339 <400> SEQUENCE: 7
340 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
341 1 5 10 15
343 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu
344 20 25 30
346 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe
347 35 40 45
349 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
350 50 55 60
352 Thr Ala Arg Gly Ala Ile Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
353 65 70 75 80
355 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser Gly
356 85 90 95
358 Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
359 100 105 110
361 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
362 115 120 125
364 Val Val Leu Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His

FYI:

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/502,984

DATE: 11/17/2000
TIME: 14:58:45

Input Set : A:\A68126-1.app
Output Set: N:\CRF3\11172000\I502984.raw

L:1542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30